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WHAT IS CLAIMED IS:

An optical disk comprising:

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having tracks in which a header region at which positional information showing a recorded position is recorded and a user region at which user information is recorded are alternately arranged, and in which the user region is made to wobble in a direction perpendicular to the arranging direction; and

having a first region in which at least one of a phase, a frequency, and an amplitude of the wobble is different from the other portions is formed at a portion a given length before the header region in playback order within the user region.

- 2. An optical disk according to claim 1, wherein the header region is formed such that positions of headers are shifted along the arranging direction of the tracks between the tracks which are adjacent to one another.
- 3. An optical disk according to claim 2, wherein the positional information has been recorded at the header region by a pre-pit and the user information can be recorded by marks due to changes of the phase at the user region.
- 4. An optical disk according to claim 2, wherein
 the user region is structured from groove tracks formed
 from physical concave portions or convex portions, and
 land tracks formed between the groove tracks which are

adjacent to one another.

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- 5. An optical disk according to claim 2, wherein a second region in which at least one of a phase, a frequency, and an amplitude of the wobble is different from the other portions except for the first region is formed at a portion a given length before the first region in playback order within the user region.
- 6. An optical disk according to claim 5, wherein an interval between the first region and the second region is set in accordance with a length in which the positions of the headers at the header region are shifted along the arranging direction of the tracks between the tracks which are adjacent to one another.
 - 7. An optical disk comprising:

having tracks in which a header region at which positional information showing a recorded position is recorded by a pre-pit and a user region at which user information is recorded are alternately arranged, and in which the user region is made to wobble in a direction perpendicular to the arranging direction; and

having a region in which a phase of the wobble is inverted to the other portions at a portion a given length before the header region in playback order within the user region.

8. An optical disk apparatus comprising: an optical disk which is structured such that

tracks are formed in which a header region at which positional information showing a recorded position is recorded and a user region at which user information is recorded are alternately arranged, and in which the user region is made to wobble in a direction perpendicular to the arranging direction, and a first region in which at least one of a phase, a frequency, and an amplitude of the wobble is different from the other portions is formed at a portion a given length before the header region in playback order within the user region;

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a light detecting portion which is structured so as to obtain an electrical signal corresponding to the information recorded on the optical disk by condensing a light beam on the optical disk via an objective lens; and

a detecting portion which is structured so as to detect the first region on the basis of the electrical signal obtained at the light detecting portion.

9. An optical disk apparatus according to claim 8, further comprising:

a control portion which is structured so as to control the objective lens in a tracking direction by a tracking error signal with respect to the objective lens which is generated on the basis of the electrical signal obtained at the light detecting portion; and

a holding portion which is structured so as to

hold the tracking error signal supplied to the control portion in accordance with the first region being detected by the detecting portion.

10. An optical disk apparatus according to claim 8, further comprising:

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a generating portion which is structured so as to generate a gate signal showing a playback timing of the header region in accordance with the first region being detected by the detecting portion, wherein

the information at the header region is played back from the electrical signal obtained at the light detecting portion on the basis of the gate signal generated at the generating portion.